

09592685-061200

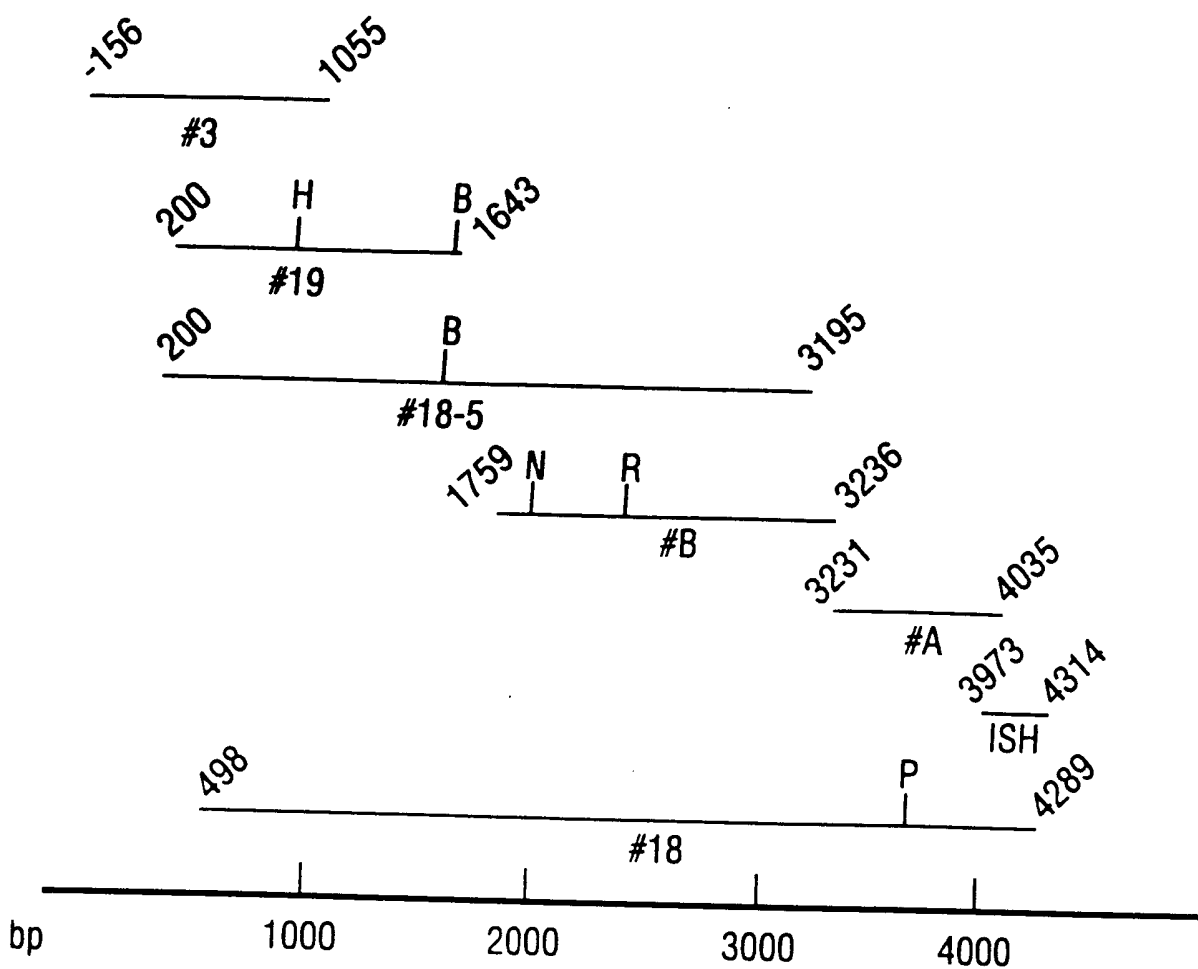
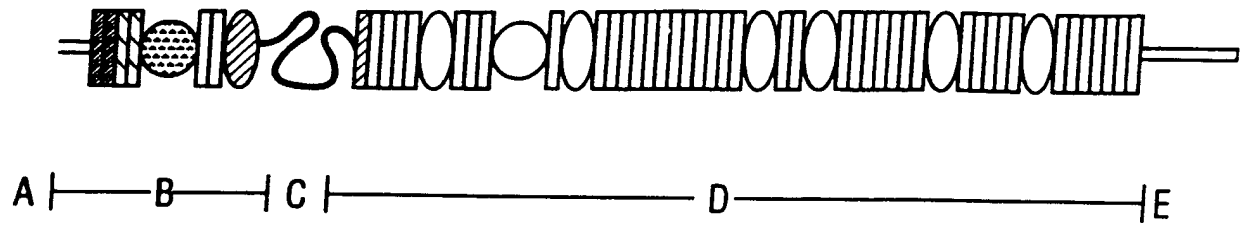
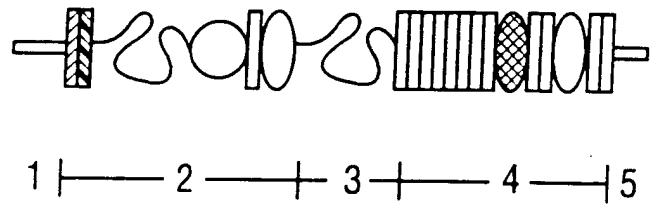


FIG. 1

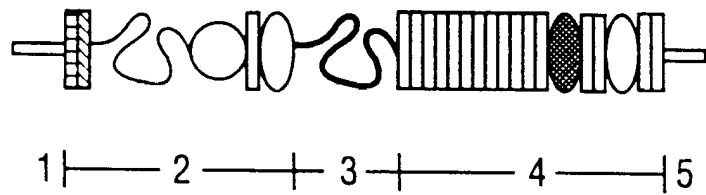
002190" 52926560



**FIG. 2A**



**FIG. 2B**

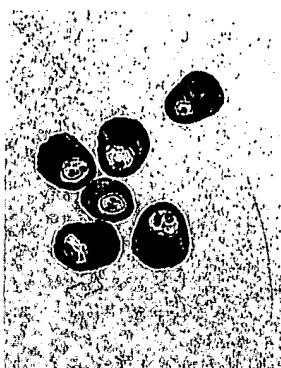


**FIG. 2C**

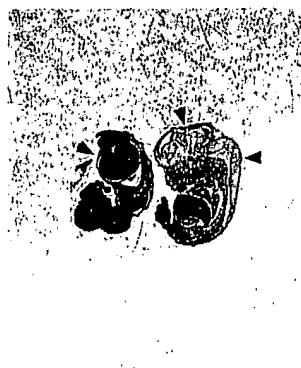
002190" 58926560

anti-sense  
probe

**FIG. 3A**



**FIG. 3C**



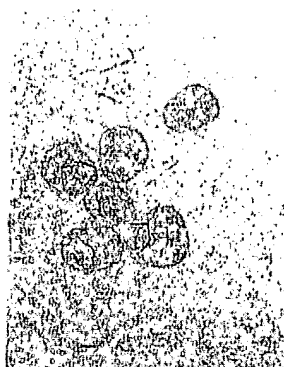
**FIG. 3E**



sense probe

day 8.5 - 9.0

**FIG. 3B**



day 13.5

**FIG. 3D**

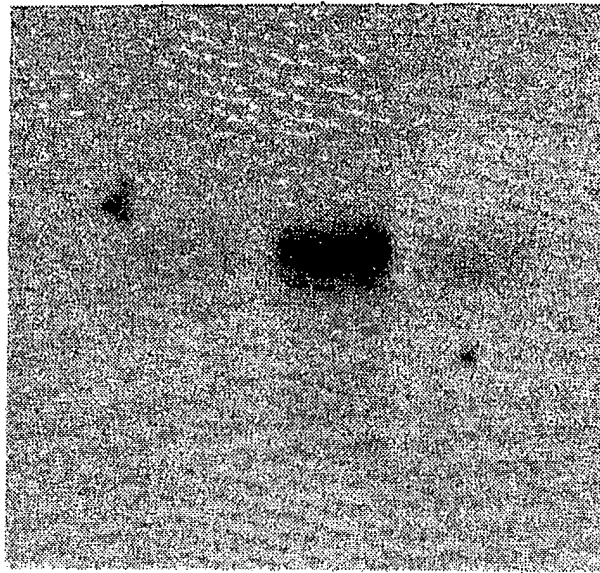


day 16.5

**FIG. 3F**



**4.4 kb—**



**DAY**

**5**

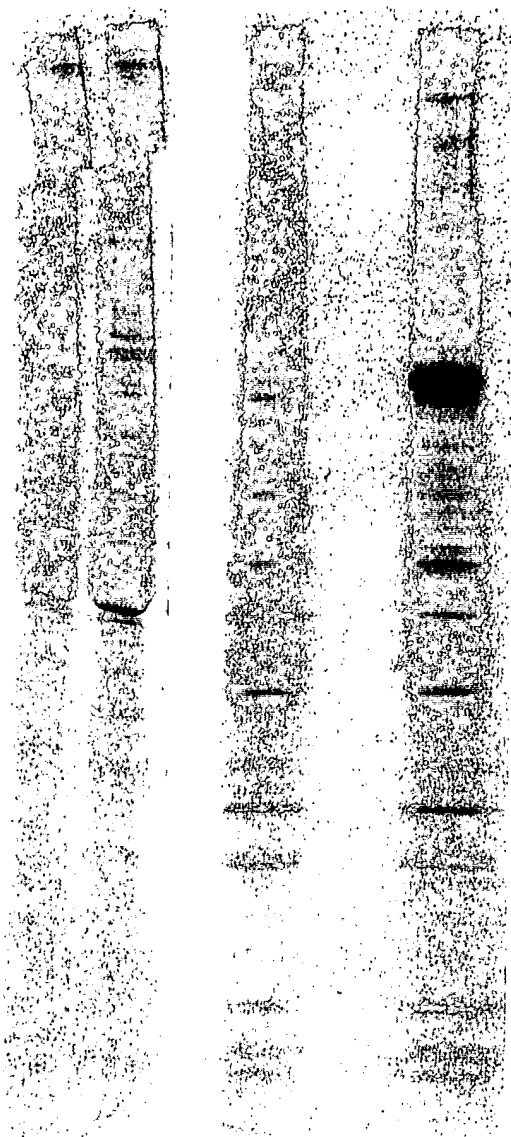
**14**

**28**

**FIG. 4**

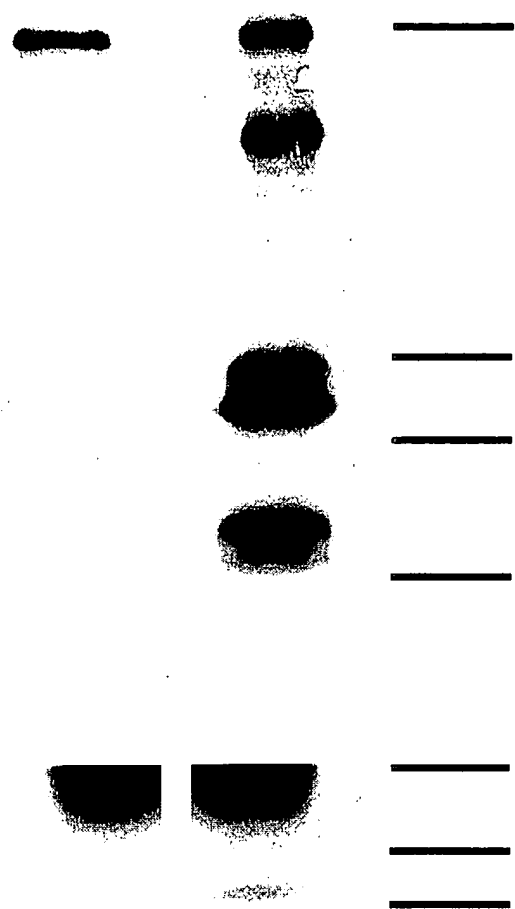
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**FIG. 5**

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**FIG. 6**

ATGAGAGCA CCTCCCGCG AGGTCTCCGG TGCCACAGC TCTGCAGCCA CTCTGGCGC ATGAGAGCGC CGACCACCGC 80  
 TCGCTGCTCC GGATGCATCC AACGGGTGGG TTGGAGGGGC TTCTTGCCAC TTGTCTGGC TGTCTTGATG GGGACAAGTC 160  
 ATGCCCAACG GGATTCCATA GGGAGATACG AACCAGCTAG CAGGGATGCG AATCGGTTGT GGCACCCCGT GGGCAGCCAC 240  
 CCCGCAGCGG CTGCAGCCAA GGTGTACAGT CTGTTCCGAG AGCCTGACGC GCCGTCCCC GGTGTGTCG CCTCTGAGTG 320  
 GAACGAGCCG GCCCAGGGA ACCCGGATG GCTCGCAGAG GCCGAGGCCA GGAGGCCACC TCGAACCCAG CAGCTGCGTC 400  
 GAGTCCAGCC ACCTGTCCAG ACTCGGAGAA GCCATCCCG GGTGCACGGC GAGGGCGGCT CACTGGGAGA AATGTCTGCG GGGGACAGTG 560  
 GCGGCGCTGG AAACCCCTCA GCGACCCGGC GCTGCACGGC GAGGGCGGCT TGTGTCAGCC TCCCTGTGAG AACCGAGGCT 640  
 CTGCCCAGGA TGGACAACAT CAAACAGCAC CAACCACTGT ATCAAACTG TGTGTCAGCC AGTGCATCCC TGAGGAGGAA 720  
 CCTGCAGCAG GCCCAGGTC TGCACTGCCC GTTCTGGCTT CCGTGGGGCG TGGAGAGAGC ACCCGTCTT CACAGAAAGCA GTGAGGCCAG 800  
 TTTGACCCCTC AGAATGCCAG GCCTGTGCCC AGACGCTCAG TGGAGAGAGC CCATCACCA CCGCTCTCG GCGCCTCAGC CAGCCCTGGC 880  
 AGGAAGTCTA GTGACCAGAA TACAGCCGCT GGTACCACCA CAGTTCGTCG GTATCCGGC ACTGCTGCCA ATGGCCAGCT GATGTCCAAC 960  
 CCCTGCAGCA GCACTCAGG CCGTCCAGGA CAGTTCGTCG CAGTTCGTCG GTATCCGGC ACTGCTGCCA ATGGCCAGCT CAGTTCCCAAC 1040  
 GCTTTGCTT CAGGACTCGA GCTGAGAGC AGCAGCCAC AGCAGCCAC AGCAGCCAC TGTGAACCAT CTCTCACCCC CCTGGGGGCT 1120  
 GAACCTCACC GAGAAATCA AGAAATCA AGTCGCTCTC ACCCCACCA CAGTCAGGT GGCCATGGG ATGACCCCAA GTCTGGCTTC 1200  
 GTGCCAACAG CTGTGAGAA GGTGACACCA CCACCTTGTA CAGTCAGGT GGCCATGGG CCGGACGAG TGTGCTGTC CAGCCAACTC 1280  
 CGTATCTATT TCTGCCAAAT CCCCTGCCCTG AATGGTGGC GCTGCATCGG CCGGACGAG TGTGCTGTC CAGCCAACTC 1360  
 CACAGGAAAG TTCTGCCATC TGCCTGTCCC GCAGCCAGAC AGGGAACCTG CTGCGCTCTG TGAACCCCTC GCTGTGAAG 1440  
 TGGAAAGTCC CCTGAAGCAA TCCACCTTCA CGCTGCCCTCT GTGCAGATTC ACCAGGTGGC CCGGTCCGG GGTGAGCTGG ACCCCGTGCT 1520  
 GTGCAAATTC ATCACCCGCC TGAGGCCCTCT TCATCGCCCC CACGGCAACC TAGGCCACAG CCCCTGGGCC AGCAACAGCA 1600  
 GGAGGACAAC AGTGTGGAGA CCAGAGCCCTC CACGAGCCCTC CACGAGCCCTC CACGAGCCCTC CACGAGCCCTC CACGAGCCCTC 1680  
 TACCCGCTCG GCGCGGAGAG GCCCCTCGGC CACCACTGAGT GCTGTCTAGG CATTTATGAC TTCTGGGCCA GTGTTACCTG 1760  
 AGCACGGTGA ATGGACAGTG TGCTAACCCC CTAGGTAGTC TGACTTCTCA GGAGGACTGC TGTGGCAGTG TGGGACCTT 1840  
 CTGGGGGTG ACCTCCTGTG CTCCCTGCCC ACCCAGACAA GAGGTCCAG CCTTCCAGT GATTGAAAAT GGCCAGCTGG 1920  
 AGTGTCCCCA AGGATACAAG AGACTGAACC TCAGCCACTG CCAAGATATC AATGAGTGCC TGACCCCTGGG CCTCTGCAAG 1920

FIG. 7

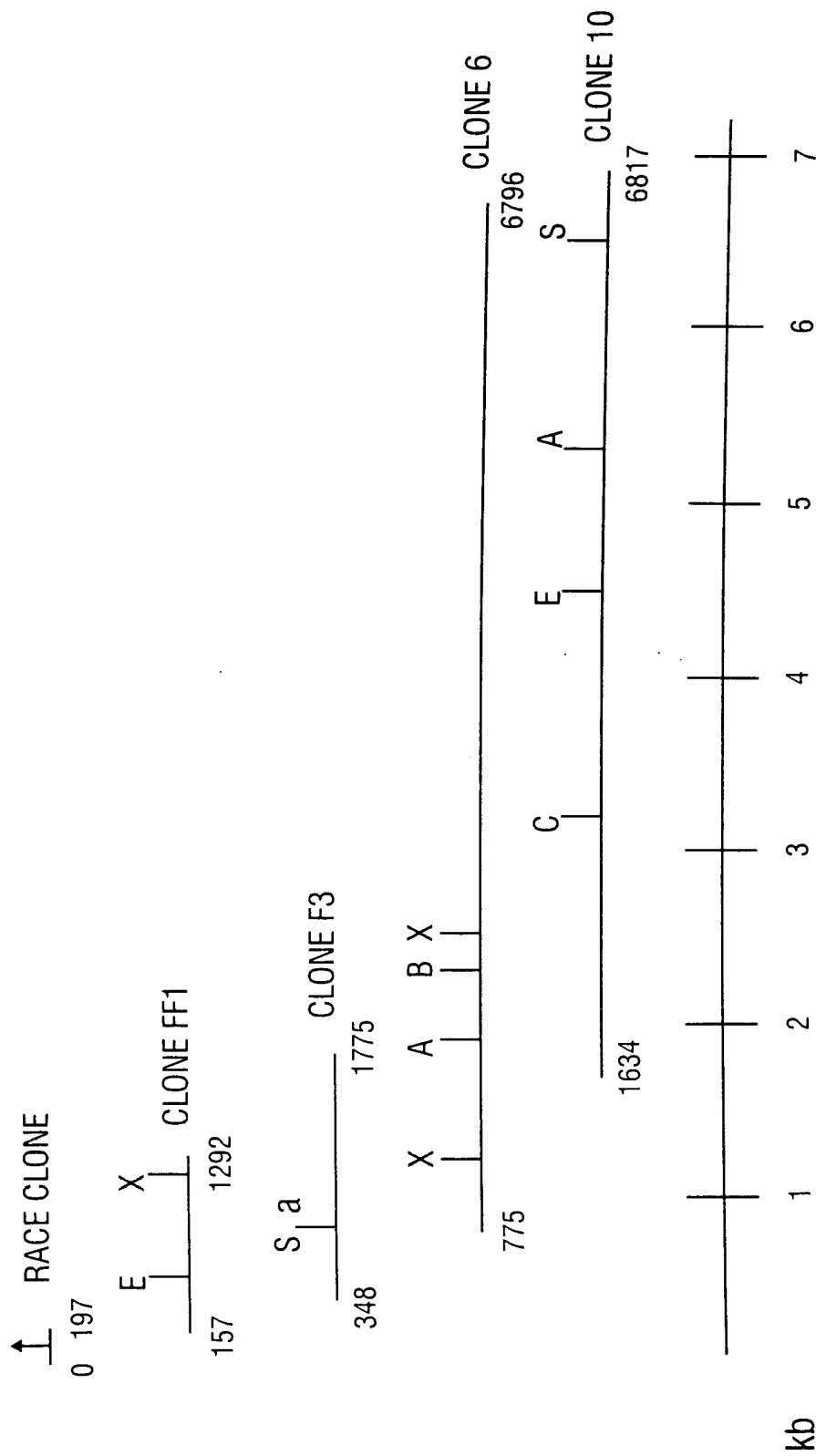
GACTCGGAGT GCGTGAACAC CAGGGGCAGC TACCTGTGCA CCTGCAGGCC TGGCTCATG CTGGATCCGT CAAGGAGCCG 2000  
CTGCGTATCG GACAAGGCTG TCTCCATGCA GCAGGGACTA TGCTACCGGT CACTGGGGTC TGGTACCTGC ACCCTGCCTT 2080  
TGGTTTCATCG GATCACCAAG CAGATATGCT CAGGAGAGATC TGCCCTGCTG GCCATGGCTA CACCTACTCG AGCTCAGACA TCCGCCCTGTC 2160  
CTGCCCTGGCA CAGAAAGCCTT CAGGGAGATC CAGGAACTGGC TAGCCCCCTTA AGGGAGCAGA CAGAGCAGAG CACTGCACCC CCACCTGGGC 2240  
TATGAGGAAA GCCGAAGAAG AGGAACCTC CCGGCAGCCA CTACCTGCCC GGTACCAGG GGATGCCACT GGAAGACCAG CACCATCCTT 2480  
AAGCAGAGAG GCAACCACTC CCGGCAGCCA TGCTCCCCAC CCAACATCTG TGGCCCTGGG ACCTGTGTGA GCCTCCCAA TGGATACAGA 2560  
GCTGTTTCAGA TCACAACCAG AGAGTCCAGC AGAAGAGCAA GTGATTCCCT CCAGTGATGT CTTGGTGACA CACAGCCCCC 2640  
GCCTGGACAG GGCATTCCAG AGAGTCCAGC CCAACATCTG TGGCCCTGGG ACTACTGTAC TGATGACAAC GAGTGTATGA GGAACCCCTG 2720  
CAGACTTTGA TCCATGTTT GCTGGAGCCT CCAGCTACAC CCCAGCCAAG ACTACTGTAC TCCCTGCTCT TCCTACACTA GTCACCCCTG 2800  
TGTGTCCTGCA GCCCTGGCTA CCAGCTACAC CCAACATCTG TGGCCCTGGG ACCTGTGTGA GCCTCCCAA TGGATACAGA 2880  
TGAAGGAAGA GCGCGCTGTG TCAACAGTGT GGGCTCCTAC CCAACATCTG TGGCCCTGGG ACCTGTGTGA GCCTCCCAA TGGATACAGA 2960  
GAGACACACA GGAGTGCCAA GATATCGATG TGATCGGGC TACATCATGG TCAGGAAAGG ACACCTGTCAA GATATCAACG AATGCCGTCA 3040  
GGCTCGTACC ACTGCGAGTG TGATCGGGC CCAACTCCCT GGCTCCTACA CTTGTCTGGC CTGTGAGGAG GGCTATGTAG 3120  
CCCTGGTACC TGCCCTGATG GGAGATGCGT CCAACTCCCT GGCTCCTACA CTTGTCTGGC CTGTGAGGAG GGCTATGTAG 3200  
GCCAGAGTGG GAGCTGTGTA GATGTCAATG AGTGTCTGAC CCCTGGGATA TGTACCCATG GAAGGTGCTG ACAGATGTGC 3280  
GGCTCCTTTA GATGCTCCTG TGAGCCGGGC TATGAGGTCA CCCAGACAA CCACTGTCTGTC AGCTGTCTGAG AGCGGGTACT 3360  
CAGCCGAGCC TCGTGCCCCA CCGGCTCTG GCCTGTGAAG ACTTGGATGA ATGTGCCCTT CCACTGTCTGTC AGCTGTCTGAG AGCGGGTACT 3440  
GGGTGAACGA AGATGGCACT GCCTGTGAAG ACTTGGATGA ATGTGCCCTT CCACTGTCTGTC AGCTGTCTGAG AGCGGGTACT 3520  
AATACTGTAG GCTCCTTCTC CTGCAAGGAC TGAGACCAGG GATGTCAAGA GAATGCAAGA ACACAGAAGG TTCCTACCAA TGCCTCTGTC 3600  
GGATGAGTGT GAAGGTCCCC AAAGCAGCTG CCGGGAGGC GAATGCAAGA GAATGCAAGA ACACAGAAGG TTCCTACCAA TGCCTCTGTC 3680  
ACCAGGGCTT CCAGCTGGTC AATGGCACCA TGTGTGAGGA CGTGAATGAG TGTGTGGGG AAGAGCATTG TGCTCCTCAC 3760  
GGCGAGTGCC TCAACAGCCT GGGCTCCTTC TTCTGCCCTCT GTGCACCCGG CTTTGTCTAGT GCTGAGGGGG GCACACAGATG 3840  
CCAGGATGTT GATGAATGTG CAGCCACAGA CCCGTGTCCG GGAGGACACT GTGTCAACAC AGAGGGCTCC TTCAGCTGTC 3920  
TGTGTGAGAC TGCTTCCCTC CAGCCCTCCC CAGACAGCGG AGAATGTTTG GATATTGATG AGTGTGAGGA CCGTGAAGAC 4000

FIG. 7.1



CCGGTGTGCG GAGCCTGGAG GTGTGAGAAC AGTCCTGGTT CCTACCGCTG CATCTGGAC TGCCAGCCTG GATTCTATGT 3920  
 GCGGCCAAAT GGAGACTGCA TTGACATAGA TGAATGTGCC AATGACACTG TGTGTGGAA CCATGGCTTC TGTGACAAACA 4000  
 CGGACGGCTC CTTCCGCTGC CTGTGTGACC AGGCCTTCCA GACCTCACCA TCAGGCTGGG AGTGTGTTGA TGTGAACGAG 4080  
 TGTGAGCTCA TGATGGCAGT GTGTGGGGAT GCGCTCTGTG AGAACGTGGA AGGCTCCTTC CTGTGCCCTT GCGCCAGTGA 4160  
 CTTTGAGGAG TACGACGCAG AAGAAAGACA CTGCCGCTCCT CGGTGGCTG GAGCTCAGAG AATCCAGAG GTCCGGGACAG 4240  
 AGGACCAGGC TCCAAGCCTT ATCCGCATGG AATGCTACTC TGAACACAAT GGTGGTCTCT CCTGCTCTCA AATCCTGGGC 4320  
 CAGAACTCCA CACAGGCCGA GTGCTGCTGC ACTCAGGGTG CCAGATGGGG AAAGGCCCTGT GCGCCCTGCC CATCTGAGGA 4400  
 CTCAGTTGAA TTCAGTCAGC TCTGCCCCAG TGGTCAAGGT TACATCCCAG TGAAGGAGC CTGGACATTT GGACAAACCA 4480  
 TGTATACAGA TGCCGATGAA TGTGTACTGT TTGGGCCCTGC TCTCTGCCAG AATGGCCGAT GCTCAAACAT AGTGCCCTGGC 4560  
 TACATTTGCC TGTGCAACCC TGGCTACCAC TATGATGCCCT CCAGCAGGAA GTGCCAGGAT CACAACGAAT GCCAGGACTT 4640  
 GGCCTGTGAG AACGGTGAGT GTGTGAACCA AGAAGGCTCC TTCCATTGCC TCTGCAATCC CCCCCTCACC CTAGACCTCA 4720  
 GTGGGCAGCG CTGTGTGAAC ACGACCAGCA GACCCAGCCC TTGCGTGGGC ACCATACCAC CTATACAGAA TGCTGCTGCC AAGATGGGA 4800  
 AAAGTCACCA ATGATGTGTG CAGCCAGCCC TTGCGTGGGC TCTGAGGTCT ACGCTCAGCT GTGCAACGTG GCTCGGATTG 4960  
 GGCCTGGAGC CAGCAATGCG CTCGTGTGCC GCCCAGGAGC TCTGAGGTCT TGAGTATGGC CCTGGCCTGG ACGATCTGCC TGAACACCTC 5040  
 AGGCAGAGCG CGGAGCAGGG ATCCACTTCC GGCCAGGCTA TGAGTATGGC CCTGGCCTGG ACGATCTGCC CCAACCCAGC 5120  
 TACGGCCCCAG ATGGGGCTCC CTTCTATAAC TACCTAGGCC CCGAGGACAC TGCCCTCTGAG CCTCCCTTCT CTAGCCAGCC 5200  
 CAGCCAGCCG GGAGACAACA CACCTGTCTT TGAGCCTCCT CTGCAGCCCT CTGAACCTCA GCCTCACTAT CTAGCCAGCC 5280  
 ACTCAGAACC CCTTGCCTCC TTCGAAGGCC TTCAGGCTGA GGAATGTGGC ATCCTGAATG GCTGTGAGAA TGGCCGCTGC 5360  
 GTGCGTGTGC GGGAGGGCTA CACTTGGGAC TGCTTTGAGG GCTTCCAGCT GGATGCGCCC ACATTGGCCT GTGTGGATGT 5440  
 GAACGAGTGT GAAGACTTGA ACGGGCCTGC ACGACTCTGT GCACACGGTC ACTGTGAGAA CACAGAGGGT TCCTATCGCT 5502  
 GCCACTGTTT GCCAGGTTAC GTGGCAGAGC CAGGCCCCCC ACGTGTGGG GCCAAGGAGT AG

FIG. 7.2



**FIG. 7**

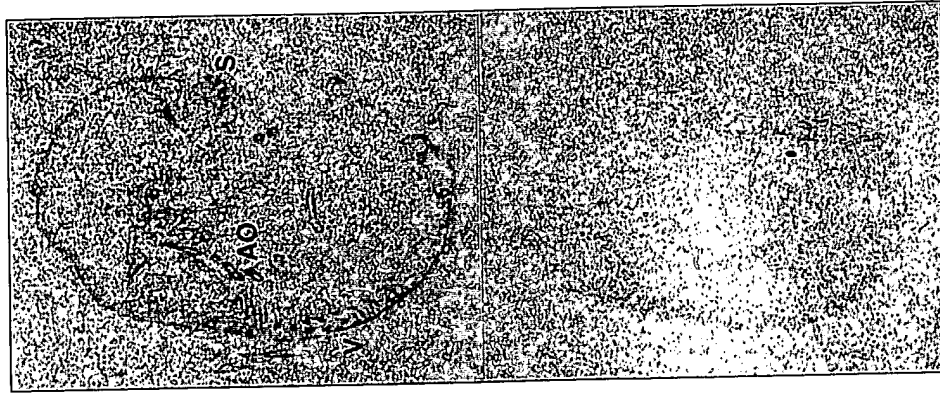


FIG. 8A



FIG. 8B

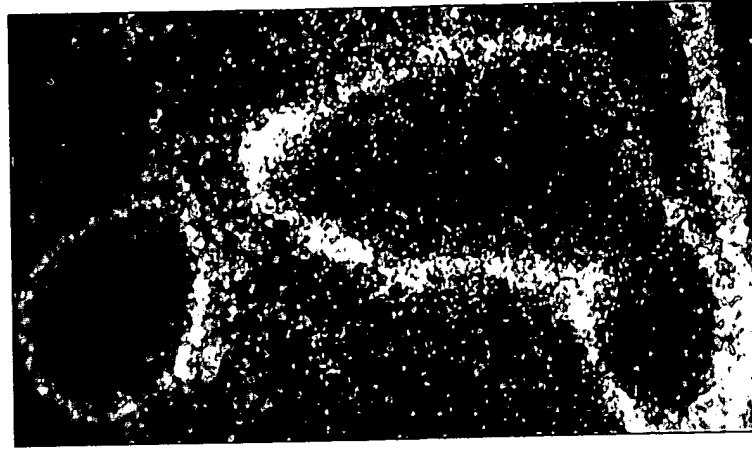


FIG. 8C

MESTSPRLRCPQLCSHSGAMRAPTTARCSGCIQVRWRGFLPLVLAVLMGTSHAQRDSIGRYEPASRDANRLWHPVGSHPAAAAKVYS 90  
LFREPDAPVGLSPSEWNQPAQGNPGLWLAEEARRPPRTQQLRRVQPPVQTRRSHPRGQQQIAARAAPSVARLETQPORPAAARRGRLTGR 180  
NVCGGCCCPGWTTSTNTHCIKPVCCQPPCQNRGSCSRPQVICIRSGFRGARCEEVPIEEFFDPQNARVPVRRSVERAPGPHRSSEARGSL 270  
VTRIQLVPPPPPPRRRLSQWPQLQSHGSPSRTVRRYPATGANGQLMSNALPSGLELRDSSPQAAHVNLSPWPGLNLTEKIKKIKVVF 360  
TPTICKQTCARGRCANSCEKGDTTTLYSQGGHGHDPKSGFRIFYCQIPCLNGGRCIGRDECWCPANSTGKFCHLPVPQPDREPAGRSRH 450  
RTLLEGPLKQSTFTLPLSNQLASVNPVSLVKVQIHHPPPEASVQIHQVARVRGELDPVLEDNSVETRASHRPHGNLGHSPWASNSIPARAGE 540  
APRPPVLSRHYGLLGQCYLSTVNGQCANPLGSLTSQEDCCGSGVTFWGTSCAPCPRQEGPAFPVIENGQLECPQGYKRLNLSHCQDI 630  
NECLTLGLCKDSECVNTRGSYLCTCRPGLMLDPSRSRCVSDKAVSMQQGLCYRSLSGTCTLPLVHRITKQICCCSRVKGAWGSTCEQCP 720  
LPGTEAFREICPAGHGYTYSDDIRLSMRKAEELASPLREQTEQSTAPPPQAERQPLRAATATWIEAETLPPDKGDSRAVQITTSAPH 810  
LPARVPGDATGRPAPSLPGQIPESPAEEQVIPSSDVLVTHSPDFDPFCFAGASNICGPGTCVSLPNGYRCVCSPGYQLHPSQDYCTDDN 900  
ECMRNPCEGRGRCVNSVGSYSCLCYPGYTLVTLGDTQECQDIDECQPGVCSGGRCSNTEGSHCECDRGYIMVRKGHCQDINECRHPGT 990  
CPDGRCVNSPGSYTCLACEGYVGQSGSCVDVNECLTPGICTHGRGINMEGSRCSCEPGYEVTPDKKGRDVEDECASRASCP TGLCLNT 1080  
EGSFTCSACQSGYWVNEDGTACEDLDECAFPGVCP TGVCTNTVGSFSCKDCDQGYRPNPLGNRCEDVDECEGPQSSCRGGECKNTEGSYQ 1170  
CLCHQGFQLVNGTMCEDVNECVGEEHCAPHGECLNSLGSFFCLCAPGFASAEGGTRCQDVDECAATDPCPGGHCVNTEGSFSLCETASF 1260  
QPSPDSGECLDIDECEDREDPVCGAWRCE NSPGSYRCILDCQPGFYVAPNGDCIDIDECANDTVCGNHGFCNDTDGSRCLCDQGFETSP 1350  
SGWECVDVNECELMMAVCGDALCENVEGSFLCLCASDLEEYDAEEGHCRPRVAGAQRIP EVRTEDQAPSLIRMECYSEHNGGPPCSQILG 1440  
QNSTQAECCCTQGARWGKACAPCPSEDSVEFSQLCPSGQGYIPVEGAWTFGQMTYTDADCEVLFGPALCQNGRCSNIVPGYICLCNPGYH 1530  
YDASSRKCQDHNQCQDLACENGECVNQEGSFHCLCNPPLTLDLSGQRCVNTTSTSTEDFPDHDIHMDICWKKVTDVCSQPLRGHHTTYTE 1620  
CCCQDGEAWSQQCALCPPRSSEVYAQLCNVARI EAERGAGIHFRPGYEGPGLDDL PENLYGPDGAPFYNYLGPEDTAPEPPFSNPASQP 1710  
GDNTVPLEPPLQSELQPHYLASHSEPPASFEGLOAECCGILNGCENGRCVRREGYTCDCFEFGQLDAPTACVDVNECEDLNGPARLC 1800  
AHGHCENTEGSYRCHCSPGYVAEPGPPHCAAKE 1833

FIG. 8

ATG	CGC	CAG	GCC	GCA	TTG	GGG	CTG	CTG	GCA	CTA	CTC	CTG	CTG	GCG	CTG	CTG	GGC	54
M	R	Q	A	A	L	G	L	L	A	L	L	L	L	A	L	L	G	18
CCC	GGC	GGC	CGA	GGG	GTG	GGC	CGG	CCG	GGC	AGC	GGG	GCA	CAG	GCG	GGG	GCG	GGG	108
P	G	G	R	G	V	G	R	P	G	S	G	A	Q	A	G	A	G	36
CGC	TGG	GCC	CAA	CGC	TTC	AAG	GTG	GTC	TTT	GCG	CCT	GTG	ATC	TGC	AAG	CGG	ACC	162
R	W	A	Q	R	F	K	V	V	F	A	P	V	I	C	K	R	T	54
TGT	CTG	AAG	GGC	CAG	TGT	CGG	GAC	AGC	TGT	CAG	CAG	GGC	TCC	AAC	ATG	ACG	CTC	216
C	L	K	G	Q	C	R	D	S	C	Q	Q	G	S	<u>N</u>	<u>M</u>	<u>T</u>	L	72
ATC	GGA	GAG	AAC	GGC	CAC	AGC	ACC	GAC	ACG	CTC	ACC	GGT	TCT	GCC	TTC	CGC	GTG	270
I	G	E	N	G	H	S	T	D	T	L	T	G	S	A	F	R	V	90
GTG	GTG	TGC	CCT	CTA	CCC	TGC	ATG	AAC	GGT	GGC	CAG	TGC	TCT	TCC	CGA	AAC	CAG	324
V	V	C	P	L	P	C	M	N	G	G	Q	C	S	S	R	N	Q	108
TGC	CTG	TGT	CCC	CCG	GAT	TTC	ACG	GGG	CGC	TTC	TGC	CAG	GTG	CCT	GCT	GCA	GGA	378
C	L	C	P	P	D	F	T	G	R	F	C	Q	V	P	A	A	G	126
ACC	GGA	GCT	GGC	ACC	GGG	AGT	TCA	GGC	CCC	GGC	TGG	CCC	GAC	CGG	GCC	ATG	TCC	432
T	G	A	G	T	G	S	S	G	P	G	W	P	D	R	A	M	S	144
ACA	GGC	CCG	CTG	CCG	CCC	CTT	GCC	CCA	GAA	GGA	GAG	TCT	GTG	GCT	AGC	AAA	CAC	486
T	G	P	L	P	P	L	A	P	E	G	E	S	V	A	S	K	H	162
GCC	ATT	TAC	GCG	GTG	CAG	GTG	ATC	GCA	GAT	CCT	CCC	GGG	CCG	GGG	GAG	GGT	CCT	540
A	I	Y	A	V	Q	V	I	A	D	P	P	G	P	G	E	G	P	180
CCT	GCA	CAA	CAT	GCA	GCC	TTC	TTG	GTG	CCC	CTG	GGG	CCA	GGA	CAA	ATC	TCG	GCA	594
P	A	Q	H	A	A	F	L	V	P	L	G	P	G	Q	I	S	A	198
GAA	GTG	CAG	GCT	CCG	CCC	CCC	GTG	GTG	AAC	GTG	CGT	GTC	CAT	CAC	CCT	CCT	GAA	648
E	V	Q	A	P	P	P	V	V	N	V	R	V	H	H	P	P	E	216
GCT	TCC	GTT	CAG	GTG	CAC	CGC	ATC	GAG	GGG	CCG	AAC	GCT	GAA	GGC	CCA	GCC	TCT	702
A	S	V	Q	V	H	R	I	E	G	P	N	A	E	G	P	A	S	234
TCC	CAG	CAC	TTG	CTG	CCG	CAT	CCC	AAG	CCC	CAG	CAC	CCG	AGG	CCA	CCC	ACT	CAA	756
S	Q	H	L	L	P	H	P	K	P	Q	H	P	R	P	P	T	Q	252
AAG	CCA	CTG	GGC	CGC	TGC	TTC	CAG	GAC	ACA	TTG	CCC	AAG	CAG	CCT	TGT	GGC	AGC	810
K	P	L	G	R	C	F	Q	D	T	L	P	K	Q	P	C	G	S	270
AAC	CCT	TTG	CCT	GGC	CTT	ACC	AAG	CAG	GAA	GAT	TGC	TGC	GGT	AGC	ATC	GGT	ACT	864
N	P	L	P	G	L	T	K	Q	E	D	C	C	G	S	I	G	T	288
GCC	TGG	GGA	CAA	AGC	AAG	TGT	CAC	AAG	TGC	CCA	CAG	CTT	CAG	TAT	ACA	GGG	GTG	918
A	W	G	Q	S	K	C	H	K	C	P	Q	L	Q	Y	T	G	V	306
CAG	AAG	CCT	GTA	CCT	GTA	CGT	GGG	GAG	GTG	GGT	GCT	GAC	TGC	CCC	CAG	GGC	TAC	972
Q	K	P	V	P	V	R	G	E	V	G	A	D	C	P	Q	G	Y	324
AAG	AGG	CTC	AAC	AGC	ACC	CAC	TGC	CAG	GAT	ATC	AAC	GAA	TGT	GCG	ATG	CCC	GGG	1026
K	R	L	<u>N</u>	<u>S</u>	<u>T</u>	H	C	Q	D	I	N	E	C	A	M	P	G	342

FIG. 9

AAT	GTG	TGC	CAT	GGT	GAC	TGC	CTC	AAC	AAC	CCT	GGC	TCT	TAT	CGC	TGT	GTC	TGC	1080
N	V	C	H	G	D	C	L	N	N	P	G	S	Y	R	C	V	C	360
CCG	CCC	GGT	CAT	AGC	TTG	GGT	CCC	CTC	GCA	GCA	CAG	TGC	ATT	GCC	GAC	AAA	CCA	1134
P	P	G	H	S	L	G	P	L	A	A	Q	C	I	A	D	K	P	378
GAG	GAG	AAG	AGC	CTG	TGT	TTC	CGC	CTT	GTG	AGC	ACC	GAA	CAC	CAG	TGC	CAG	CAC	1188
E	E	K	S	L	C	F	R	L	V	S	T	E	H	Q	C	Q	H	396
CCT	CTG	ACC	ACA	CGC	CTA	ACC	CGC	CAG	CTC	TGC	TGC	TGT	AGT	GTG	GGT	AAA	GCC	1242
P	L	T	T	R	L	T	R	Q	L	C	C	C	S	V	G	K	A	414
TGG	GGT	GCC	CGG	TGC	CAG	CGC	TGC	CCG	GCA	GAT	GGT	ACA	GCA	GCC	TTC	AAG	GAG	1296
W	G	A	R	C	Q	R	C	P	A	D	G	T	A	A	F	K	E	432
ATC	TGC	CCC	GGC	TGG	GAA	AGG	GTA	CCA	TAT	CCT	CAC	CTC	CCA	CCA	GAC	GCT	CAC	1350
I	C	P	G	W	E	R	V	P	Y	P	H	L	P	P	D	A	H	450
CAT	CCA	GGG	GGA	AAG	CGA	CTT	CTC	CCT	CTT	CCT	GCA	CCC	GAC	GGG	CCA	CCC	AAA	1404
H	P	G	G	K	R	L	L	P	L	P	A	P	D	G	P	P	K	468
CCC	CAG	CAG	CTT	CCT	GAA	AGC	CCC	AGC	CGA	GCA	CCA	CCC	CTC	GAG	GAC	ACA	GAG	1458
P	Q	Q	L	P	E	S	P	S	R	A	P	P	L	E	D	T	E	486
GAA	GAG	AGA	GGA	GTG	ACC	ATG	GAT	CCA	CCA	GTG	AGT	GAG	GAG	CGA	TCG	GTG	CAG	1512
E	E	R	G	V	T	M	D	P	P	V	S	E	E	R	S	V	Q	504
CAG	AGC	CAC	CCC	ACT	ACC	<del>ACC</del> -ACC	TCA	CCC	CCC	CGG	CCT	TAC	CCA	GAG	CTC	ATC		1566
Q	S	H	P	T	T	T	T	S	P	P	R	P	Y	P	E	L	I	522
TCT	CGC	CCC	TCC	CCA	CCT	ACC	TTC	CAC	CGG	TTC	CTG	CCA	GAC	TTG	CCC	CCA	TCC	1620
S	R	P	S	P	P	T	F	H	R	F	L	P	D	L	P	P	S	540
CGA	AGT	GCA	GTG	GAG	ATC	GCC	CCC	ACT	CAG	GTC	ACA	GAG	ACC	GAT	GAG	TGC	CGA	1674
R	S	A	V	E	I	A	P	T	Q	V	T	E	T	D	E	C	R	558
TTG	AAC	CAG	AAT	ATC	TGT	GGC	CAT	GGA	CAG	TGT	GTG	CCT	GGC	CCC	TCG	GAT	TAC	1728
L	N	Q	N	I	C	G	H	G	Q	C	V	P	G	P	S	D	Y	576
TCC	TGC	CAC	TGC	AAC	GCT	GGC	TAC	CGG	TCA	CAC	CCG	CAG	CAC	CGC	TAC	TGT	GTT	1782
S	C	H	C	N	A	G	Y	R	S	H	P	Q	H	R	Y	C	V	594
GAT	GTG	AAC	GAG	TGC	GAG	GCA	GAG	CCC	TGC	GGC	CCC	GGG	AAA	GGC	ATC	TGT	ATG	1836
D	V	N	E	C	E	A	E	P	C	G	P	G	K	G	I	C	M	612
AAC	ACT	GGT	GGC	TCC	TAC	AAT	TGT	CAC	TGC	AAC	CGA	GGC	TAC	CGC	CTC	CAC	GTG	1890
N	T	G	G	S	Y	N	C	H	C	N	R	G	Y	R	L	H	V	630
GGT	GCA	GGG	GGC	CGC	TCG	TGC	GTG	GAC	CTG	AAC	GAG	TGC	GCC	AAG	CCT	CAC	CTG	1944
G	A	G	G	R	S	C	V	D	L	N	E	C	A	K	P	H	L	648
TGT	GGG	GAC	GGT	GGC	TTC	TGC	ATC	AAC	TTC	CCT	GGT	CAC	TAC	AAA	TGC	AAC	TGC	1998
C	G	D	G	G	F	C	I	N	F	P	G	H	Y	K	C	N	C	666
TAT	CCT	GGC	TAC	CGG	CTC	AAG	GCC	TCC	CGA	CCG	CCC	ATT	TGC	GAA	GAC	ATC	GAC	2052
Y	P	G	Y	R	L	K	A	S	R	P	P	I	C	E	D	I	D	684
GAG	TGT	CGC	GAC	CCT	AGC	ACC	TGC	CCT	GAT	GGC	AAA	TGT	GAA	AAC	AAA	CCT	GGC	2106
E	C	R	D	P	S	T	C	P	D	G	K	C	E	N	K	P	G	702

FIG. 9.1

AGC	TTC	AAG	TGC	ATC	GCC	TGC	CAG	CCT	GGC	TAC	CGT	AGC	CAG	GGG	GGC	GGG	GCC	2160
S	F	K	C	I	A	C	Q	P	G	Y	R	S	Q	G	G	G	A	720
TGT	CGT	GAT	GTC	AAC	GAA	TGC	TCC	GAA	GGT	ACC	CCC	TGC	TCT	CCT	GGA	TGG	TGT	2214
C	R	D	V	N	E	C	S	E	G	T	P	C	S	P	G	W	C	738
GAG	AAA	CTT	CCG	GGT	TCT	TAC	CGT	TGC	ACG	TGT	GCC	CAG	GGG	ATA	CGA	ACC	CGC	2268
E	K	L	P	G	S	Y	R	C	T	C	A	Q	G	I	R	T	R	756
ACA	GGA	CGC	CTC	AGT	TGC	ATA	GAC	GTG	GAT	GAC	TGT	GAG	GCT	GGG	AAA	GTG	TGC	2322
T	G	R	L	S	C	I	D	V	D	D	C	E	A	G	K	V	C	774
CAA	GAT	GGC	ATC	TGC	ACG	AAC	ACA	CCA	GGC	TCT	TTC	CAG	TGT	CAG	TGC	CTC	TCC	2376
Q	D	G	I	C	T	N	T	P	G	S	F	Q	C	Q	C	L	S	792
GGC	TAT	CAT	CTG	TCA	AGG	GAT	CGG	AGC	CGC	TGT	GAG	GAC	ATT	GAT	GAA	TGT	GAC	2430
G	Y	H	L	S	R	D	R	S	R	C	E	D	I	D	E	C	D	810
TTC	CCT	GCG	GCC	TGC	ATC	GGG	GGT	GAC	TGC	ATC	AAT	ACC	AAT	GGT	TCC	TAC	AGA	2484
F	P	A	A	C	I	G	G	D	C	I	N	T	<u>N</u>	<u>G</u>	<u>S</u>	Y	R	828
TGT	CTC	TGT	CCC	CTG	GGT	CAT	CGG	TTG	GTG	GGC	GGC	AGG	AAG	TGC	AAG	AAA	GAT	2538
C	L	C	P	L	G	H	R	L	V	G	G	R	K	C	K	K	D	846
ATA	GAT	GAG	TGC	AGC	CAG	GAC	CCA	GGC	CTG	TGC	CTG	CCC	CAT	GCC	TGC	GAG	AAC	2592
I	D	E	C	S	Q	D	P	G	L	C	L	P	H	A	C	E	N	864
CTC	CAG	GGC	TCC	TAT	GTC	<del>TGT</del>	GTC	TGT	GAT	GAG	GGT	TTC	ACA	CTC	ACC	CAG	GAC	2646
L	Q	G	S	Y	V	C	V	C	D	E	G	F	T	L	T	Q	D	882
CAG	CAT	GGG	TGT	GAG	GAG	GTG	GAG	CAG	CCC	CAC	CAC	AAG	AAG	GAG	TGC	TAC	CTT	2700
Q	H	G	C	E	E	V	E	Q	P	H	H	K	K	E	C	Y	L	900
AAC	TTC	GAT	GAC	ACA	GTG	TTC	TGT	GAC	AGC	GTA	TTG	GCT	ACC	AAT	GTC	ACT	CAG	2754
N	F	D	D	T	V	F	C	D	S	V	L	A	T	<u>N</u>	<u>V</u>	<u>T</u>	Q	918
CAG	GAA	TGC	TGT	TGC	TCT	CTG	GGA	GCT	GGC	TGG	GGA	GAC	CAC	TGC	GAA	ATC	TAT	2808
Q	E	C	C	C	S	L	G	A	G	W	G	D	H	C	E	I	Y	936
CCC	TGT	CCA	GTC	TAC	AGC	TCA	GCC	GAA	TTT	CAC	AGC	CTG	GTG	CCT	GAT	GGG	AAA	2862
P	C	P	V	Y	S	S	A	E	F	H	S	L	V	P	D	G	K	954
AGG	CTA	CAC	TCA	GGA	CAA	CAA	CAT	TGT	GAA	CTA	TGC	ATT	CCT	GCC	CAC	CGT	GAC	2916
R	L	H	S	G	Q	Q	H	C	E	L	C	I	P	A	H	R	D	972
ATC	GAC	GAA	TGC	ATA	TTG	TTT	GGG	GCA	GAG	ATC	TGC	AAG	GAG	GGC	AAG	TGT	GTG	2970
I	D	E	C	I	L	F	G	A	E	I	C	K	E	G	K	C	V	990
AAC	TCG	CAG	CCC	GGC	TAC	GAG	TGC	TAC	TGC	AAG	CAG	GGC	TTC	TAC	TAC	GAT	GGC	3024
N	S	Q	P	G	Y	E	C	Y	C	K	Q	G	F	Y	Y	D	G	1008
AAC	CTG	CTG	GAG	TGC	GTG	GAC	GTG	GAC	GAG	TGC	TTG	GAT	GAG	TCT	AAC	TGC	AGG	3078
N	L	L	E	C	V	D	V	D	E	C	L	D	E	S	N	C	R	1026
AAC	GGA	GTG	TGT	GAG	AAC	ACG	TGG	CGG	CTA	CCG	TGT	GCC	TGC	ACT	CCG	CCG	GCA	3132
N	G	V	C	E	N	T	W	R	L	P	C	A	C	T	P	P	A	1044
GAG	TAC	AGT	CCC	GCA	CAG	GCC	CAG	TGT	CTG	AGC	CCG	GAG	GAG	ATG	GAG	CAC	GCC	3186
E	Y	S	P	A	Q	A	Q	C	L	S	P	E	E	M	E	H	A	1062

CCA GAG AGA CGT GAA GTG TGC TGG GGC CAG CGA GGA GAG GAC GGC ATG TGT ATG 3240  
 P E R R E V C W G Q R G E D G M C M 1080  
 GGG CCC CTG GCG GGA CCT GCC CTC ACT TTT GAT GAC TGC TGC TGC CGC CAG CCG 3294  
 G P L A G P A L T F D D C C C R Q P 1098  
 CGG CTG GGG TAC CAG TGC AGA CCG TGC CCG CCA CGT GGC ACC GGG TCC CAG TGC 3348  
 R L G Y Q C R P C P P R G T G S Q C 1116  
 CCG ACT TCA CAG AGT GAG AGC AAT TCT TTC TGG GAC ACA AGC CCC CTG CTA CTG 3402  
 P T S Q S E S N S F W D T S P L L L 1134  
 GGG AAG TCT CCG CGA GAC GAA GAC AGC TCA GAG GAG GAT TCA GAT GAG TGC CGT 3456  
 G K S P R D E D S S E E D S D E C R 1152  
 TGT GTG AGC GGA CCG TGT GTG CCA CGG CCA GGC GGG GCG GTA TGC GAG TGT CCT 3510  
 C V S G P C V P R P G G A V C E C P 1170  
 GGA GGC TTT CAG CTG GAC GCC TCC CGT GCC CGC TGC GTG GAC ATT GAT GAG TGC 3564  
 G G F Q L D A S R A R C V D I D E C 1188  
 CGA GAA CTG AAC CAG CGG GGA CTG CTG TGT AAG AGC GAG CGG TGC GTG AAC ACC 3618  
 R E L N Q R G L L C K S E R C V N T 1206  
 AGT GGA TCC TTC CGC TGT GTC TGC AAA GCT GGC TTC ACG CGC AGC CGC CCT CAC 3672  
S G S F R C V C K A G F T R S R P H 1224  
 GGG CCT GCG TGC CTC AGC GCC GCC GCT GAT GAT GCA GCC ATA GCC CAC ACC TCA 3726  
 G P A C L S A A A D D A A I A H T S 1242  
 GTG ATC GAT CAT CGA GGG TAT TTT CAC TGA  
 V I D H R G Y F H \*

FIG. 9.3

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Met Arg Gln Ala Ala Leu Gly Leu Ala Leu Leu Leu Leu Ala Leu Leu Gly Pro Gly Gly Arg	22
Gly Val Gly Arg Pro Gly Ser Gly Ala Gln Ala Gly Ala Gly Arg Trp Ala Gln Arg Phe Lys Val	44
Val Phe Ala Pro Val Ile Cys Lys Arg Thr Cys Leu Lys Ser Thr Asp Thr Leu Thr Gly Ser Ala Phe	66
Gly Ser Asn Met Thr Leu Ile Gly Glu Asn Gly His Ser Thr Asp Thr Leu Thr Gly Ser Ala Phe	88
Arg Val Val Val Cys Pro Leu Pro Cys Met Asn Gly Gly Gln Cys Ser Ser Arg Asn Gln Cys Leu	110
Cys pro Pro Asp Phe Thr Gly Arg Phe Cys Gln Val Pro Ala Ala Gly Thr Gly Ala Gly Thr Gly	132
Ser Ser Gly Pro Gly Trp Pro Asp Arg Ala Ile Tyr Ala Val Gln Val Ile Ala Asp Pro Gly Pro	154
Gly Glu Ser Val Ala Ser Lys His Ala Ala Phe Leu Val Pro Leu Gly Pro Gly Gln Ile Ser Ala	176
Gly Glu Gly Pro Pro Ala Pro Pro Val Val Asn Val Arg Val His His Pro Pro Glu Ala Ser Val Gln	198
Glu Val Gln Ala Pro Pro Gly Pro Asn Ala Glu Gly Pro Ala Ser Ser Gln His Leu Leu Pro His Pro	220
Val His Arg Ile Glu Gly Pro Arg Pro Thr Gln Lys Pro Leu Thr Lys Gln Glu Asp Cys Gly Ser Ile	242
Lys Pro Pro His Pro Arg Pro Thr Gln Lys Pro Leu Thr Lys Gln Glu Asp Cys Gly Ser Ile	264
Lys Gln Pro Cys Gly Ser Asn Pro Lys Cys His Lys Cys Pro Gln Leu Tyr Thr Gly Val Gln Lys	286
Gly Thr Ala Trp Gly Gln Ser Lys Cys His Lys Cys Pro Gln Gly Tyr Lys Arg Leu Asn Ser Thr	308
Pro Val Pro Val Arg Gly Glu Val Gly Ala Asp Cys Pro Gly His Ser Thr Lys Arg Leu Asn Asn	330
His Cys Gln Asp Ile Asn Glu Cys Val Cys Pro Gly His Ser Leu Gly Pro Leu Ala Gln Cys Ile	352
Pro Gly Ser Tyr Arg Cys Val Cys Pro Gly His Ser Leu Gly Pro Leu Ala Gln Cys Ile	374
Ala Asp Lys Pro Glu Glu Lys Ser Leu Cys Phe Arg Leu Val Ser Thr Glu His Gln Cys Gln His	396
Pro Leu Thr Thr Arg Leu Thr Arg Glu Thr Arg Glu Thr Ala Phe Lys Glu Ile Cys Pro Gly Trp Glu Arg Val	418
Cys Gln Arg Cys Pro Ala Asp Gly Thr Ala Ala Phe Lys Glu Ile Cys Pro Gly Trp Glu Arg Val	440
Pro Tyr Pro His Leu Pro Pro Asp Ala His His Pro Gly Gly Lys Arg Leu Leu Pro Leu Pro Ala	462
Pro Asp Gly Pro Pro Lys Pro Gln Leu Pro Glu Ser Pro Ser Arg Ala Pro Pro Leu Glu Asp	484

FIG. 10

Thr Glu Glu Glu Arg Gly Val Thr Met Asp Pro Pro Val Ser Glu Glu Arg Ser Val Gln Gln Ser 506  
 His Pro Thr Thr Thr Thr Ser Pro Pro Arg Pro Tyr Pro Glu Leu Ile Ser Arg Pro Ser Pro Pro 528  
 Thr Phe His Arg Phe Leu Pro Asp Leu Pro Pro Ser Arg Ser Ala Val Glu Ile Ala Pro Thr Gln 550  
 Val Thr Glu Thr Asp Glu Cys Arg Leu Asn Gln Asn Ile Cys Gly His Gly Gln Cys Val Pro Gly 572  
 Pro Ser Asp Tyr Ser Cys His Cys Asn Ala Gly Tyr Arg Ser His Pro Gln His Arg Tyr Cys Val 594  
 Asp Val Asn Glu Cys Glu Ala Glu Pro Cys Gly Tyr Arg Leu His Val Gly Ala Gly Met Asn Thr Gly 616  
 Ser Tyr Asn Cys His Cys Asn Arg Gly Tyr Arg Leu His Val Gly Ala Gly Arg Ser Cys Val 638  
 Asp Leu Asn Glu Cys Ala Lys Pro His Leu Cys Gly Asp Gly Gly Phe Cys Ile Asn Phe Pro Gly 660  
 His Tyr Lys Cys Asn Cys Tyr Pro Gly Tyr Arg Leu Lys Ala Ser Arg Pro Pro Ile Cys Glu Asp 682  
 Ile Asp Glu Cys Arg Asp Pro Ser Thr Cys Pro Asp Gly Lys Cys Glu Asn Lys Pro Gly Ser Phe 704  
 Lys Cys Ile Ala Cys Gln Pro Gly Tyr Arg Ser Gln Gly Gly Ala Cys Arg Asp Val Asn Glu 726  
 Cys Ser Glu Gly Thr Pro Cys Ser Pro Gly Trp Cys Glu Lys Leu Pro Gly Ser Tyr Arg Cys Thr 748  
 Cys Ala Gln Gly Ile Arg Thr Arg Thr Gly Arg Leu Ser Cys Ile Asp Val Asp Cys Glu Ala 770  
 Gly Lys Val Cys Gln Asp Gly Ile Cys Thr Asn Thr Pro Gly Ser Phe Gln Cys Gln Cys Leu Ser 792  
 Gly Tyr His Leu Ser Arg Asp Arg Ser Arg Cys Glu Asp Ile Asp Glu Cys Asp Phe Pro Ala Ala 814  
 Cys Ile Gly Gly Asp Cys Ile Asn Thr Asn Gly Ser Tyr Arg Cys Leu Cys Pro Leu Gly His Arg 836  
 Leu Val Gly Gly Arg Lys Cys Lys Lys Asp Ile Asp Glu Cys Ser Gln Asp Pro Gly Leu Cys Leu 858  
 Pro His Ala Cys Glu Asn Leu Gln Glu Val Gly Ser Tyr Val Cys Val Cys Asp Glu Gly Phe Thr Leu Thr 880  
 Gln Asp Gln His Gly Cys Glu Glu Val Glu Gln Pro His His Lys Lys Glu Cys Tyr Leu Asn Phe 902  
 Asp Asp Thr Val Phe Cys Asp Ser Val Leu Ala Thr Asn Val Thr Gln Gln Glu Cys Cys Ser 924  
 Leu Gly Ala Gly Trp Gly Asp His Cys Glu Ile Tyr Pro Cys Pro Val Tyr Ser Ser Ala Glu Phe 946  
 His Ser Leu Val Pro Asp Gly Lys Arg Leu His Ser Gly Gln Gln His Cys Glu Leu Cys Ile Pro 968

FIG. 10.1

Ala His Arg Asp Ile Asp Glu Cys Ile Leu Phe Gly Ala Glu Ile Cys Lys Glu Gly Lys Cys Val	990
Asn Ser Gln Pro Gly Tyr Glu Cys Tyr Cys Lys Gln Gly Phe Tyr Tyr Asp Gly Asn Leu Glu	1012
Cys Val Asp Val Asp Glu Cys Leu Asp Glu Ser Asn Cys Arg Asn Gly Val Cys Glu Asn Thr Trp	1034
Arg Leu Pro Cys Ala Cys Thr Pro Gln Arg Asp Val Lys Cys Ala Glu Ala Gln Cys Leu Ile Pro	1056
Glu Arg Trp Ser Thr Pro Trp Ala Gly Pro Ala Leu Thr Phe Asp Asp Cys Cys Arg Glu Thr Ala Cys	1078
Val Trp Gly Pro Cys Arg Pro Cys Thr Ser Pro Gln Arg Asp Glu Thr Ser Gln Pro Arg Leu	1100
Gly Thr Gln Cys Arg Pro Cys Thr Ser Pro Gln Arg Thr Ser Gln Cys Pro Thr Ser Gln Ser Glu	1122
Ser Asn Ser Phe Trp Asp Thr Ser Pro Leu Leu Gly Lys Ser Pro Arg Asp Glu Asp Ser Ser	1144
Glu Glu Asp Ser Asp Glu Cys Arg Cys Val Ser Gly Pro Cys Val Pro Arg Pro Gly Ala Val	1166
Cys Glu Cys Pro Gly Gly Phe Gln Leu Asp Ala Ser Arg Ala Arg Cys Val Asp Ile Asp Glu Cys	1188
Arg Glu Leu Asn Gln Arg Gly Leu Leu Cys Lys Ser Ser Glu Arg Cys Val Asn Thr Ser Gly Ser Phe	1210
Arg Cys Val Cys Lys Ala Gly Phe Thr Arg Ser Arg Pro His Gly Pro Ala Cys Leu Ser Ala Ala	1232
Ala Asp Asp Ala Ala Ile Ala His Thr Ser Val Ile Asp His Arg Gly Tyr Phe His	1251

FIG. 10.2

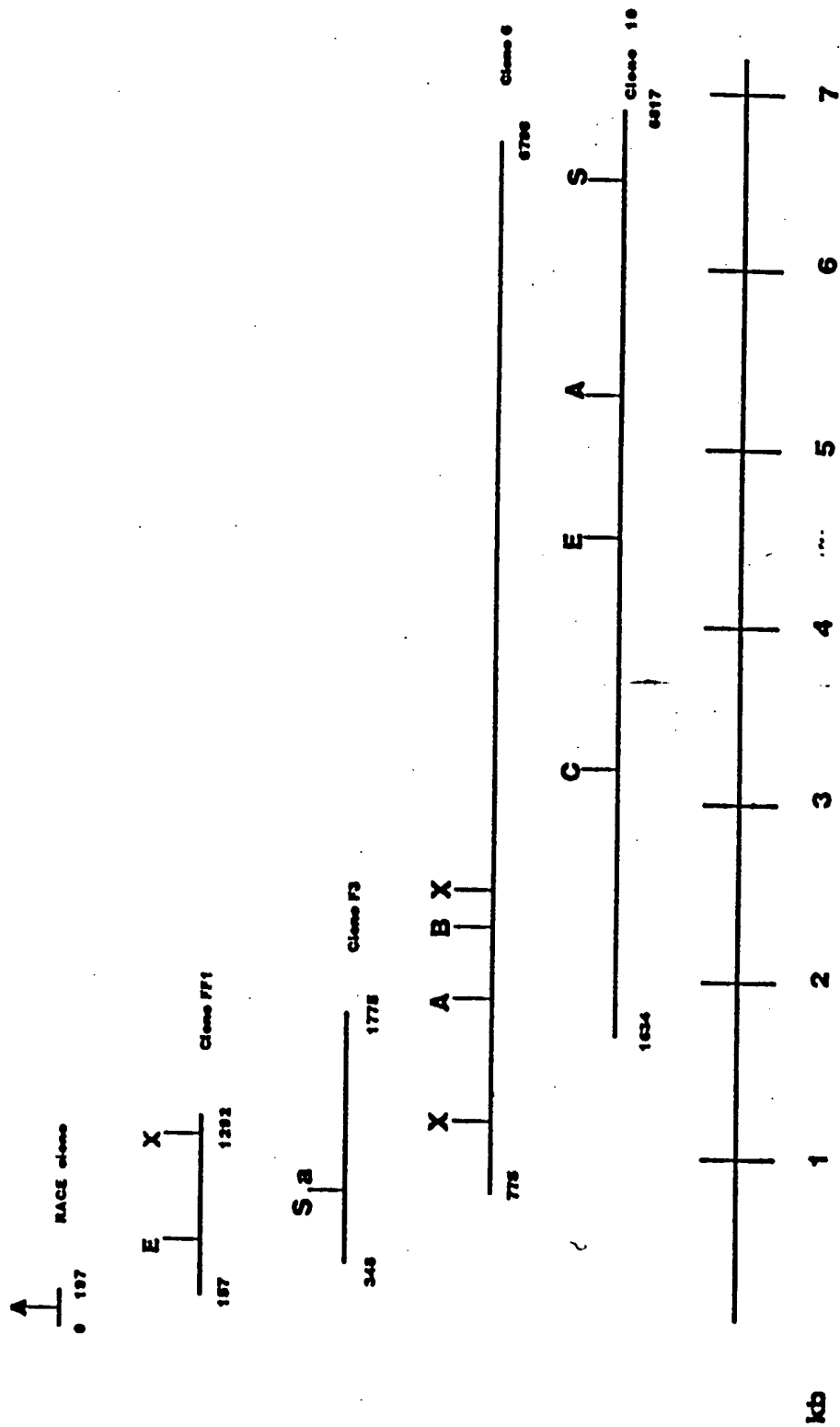


FIG. 11

002T90" 58926560

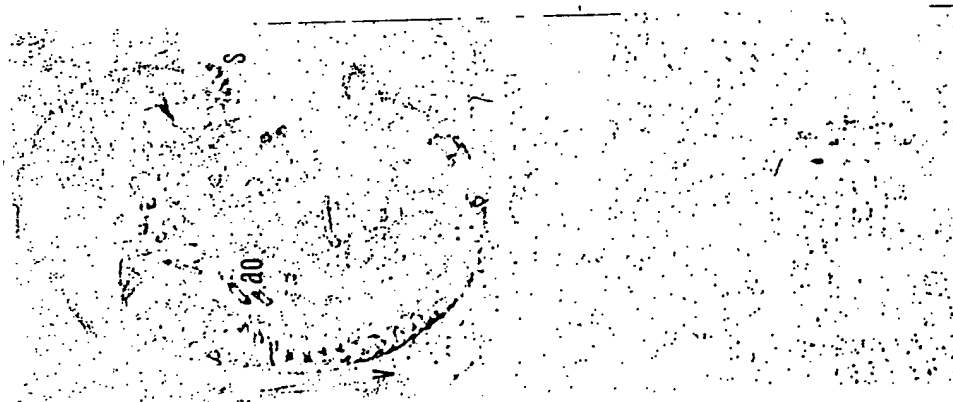


FIG. 12A

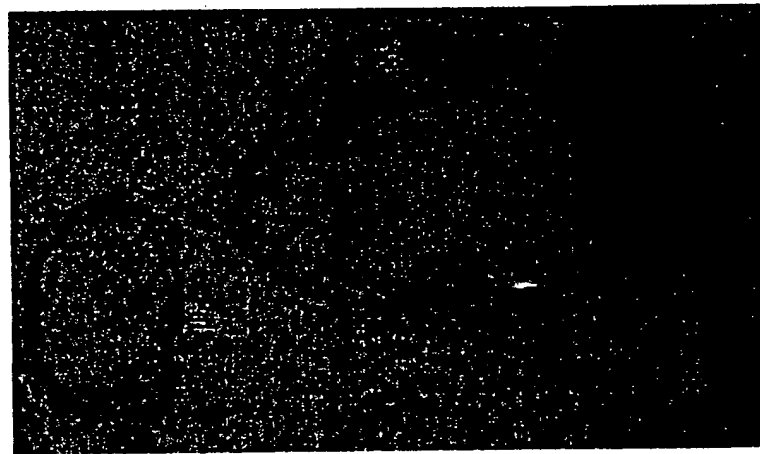


FIG. 12B

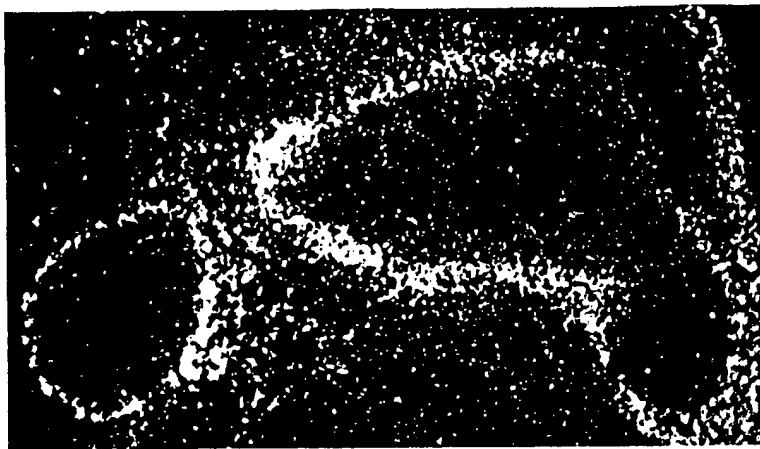


FIG. 12C

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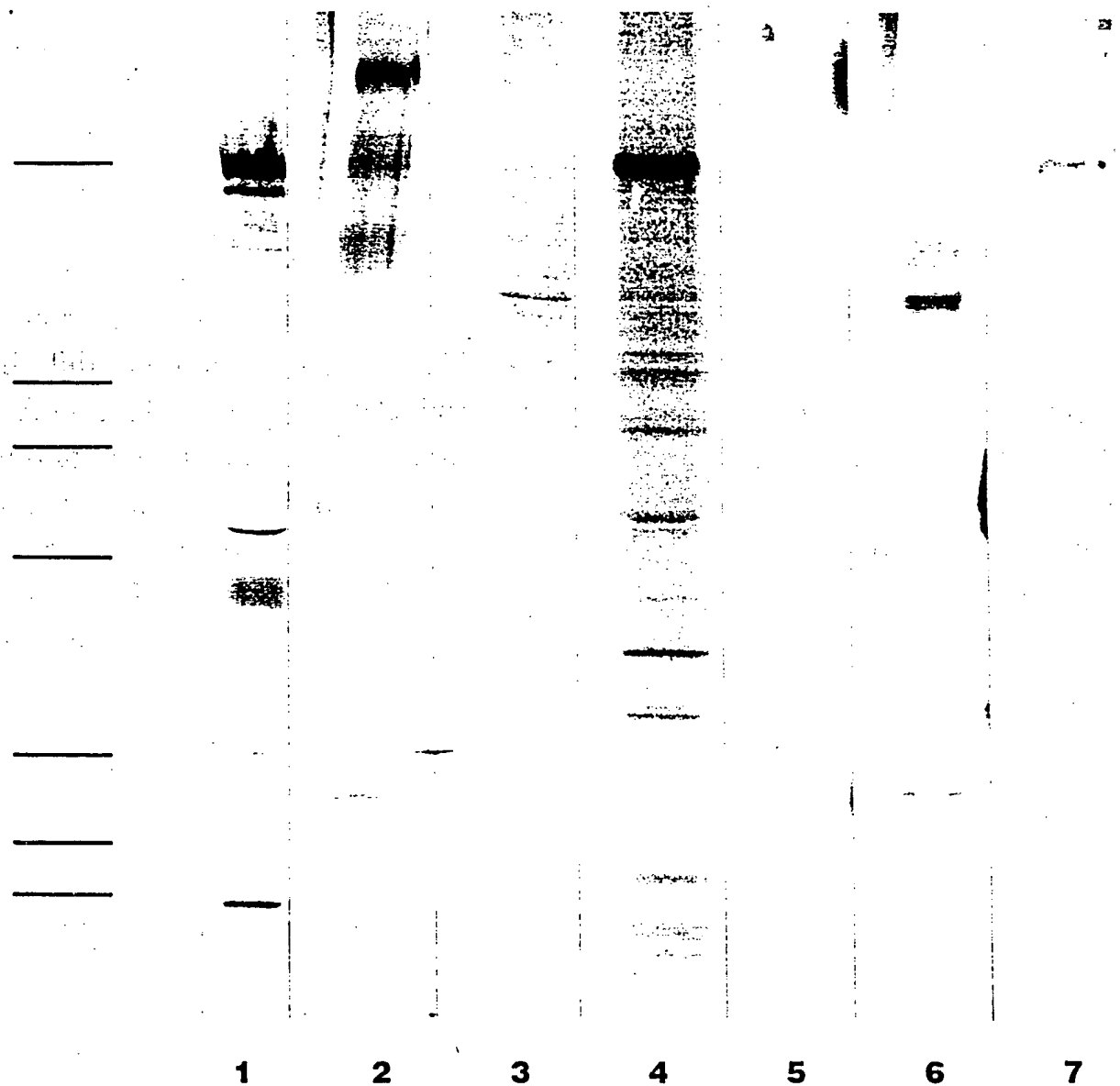


FIG. 13